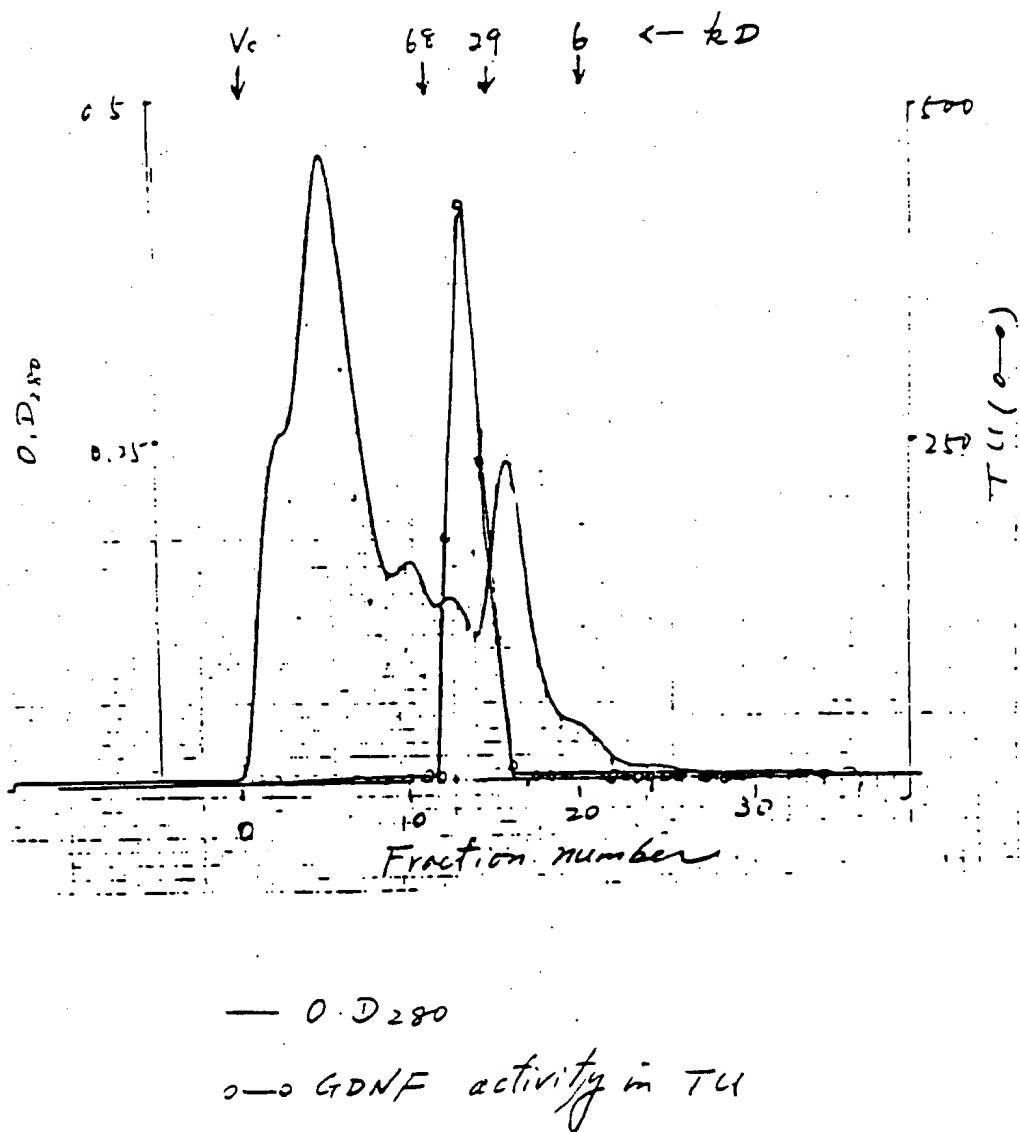


Fig. 2. FPLC Superose chromatography



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Fig. 3. RP-HPLC

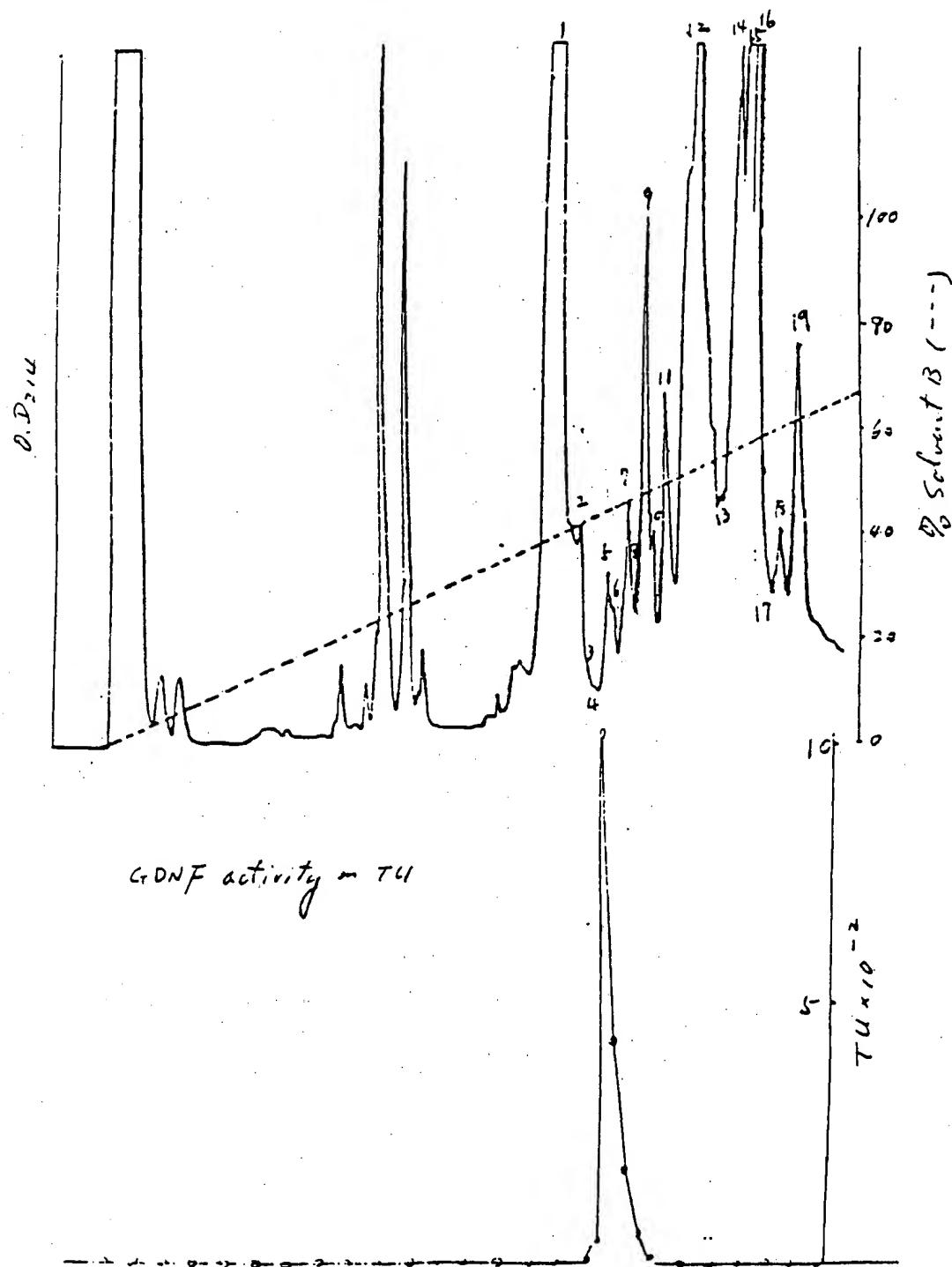
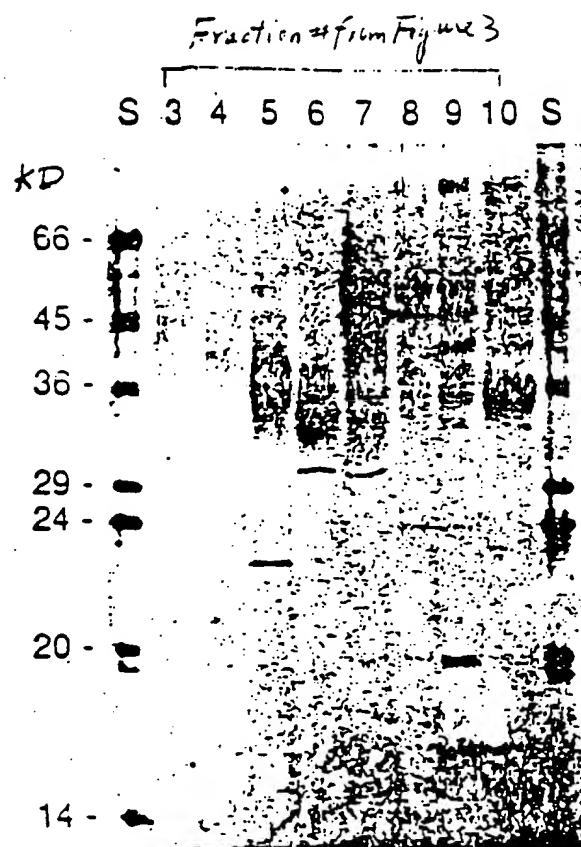
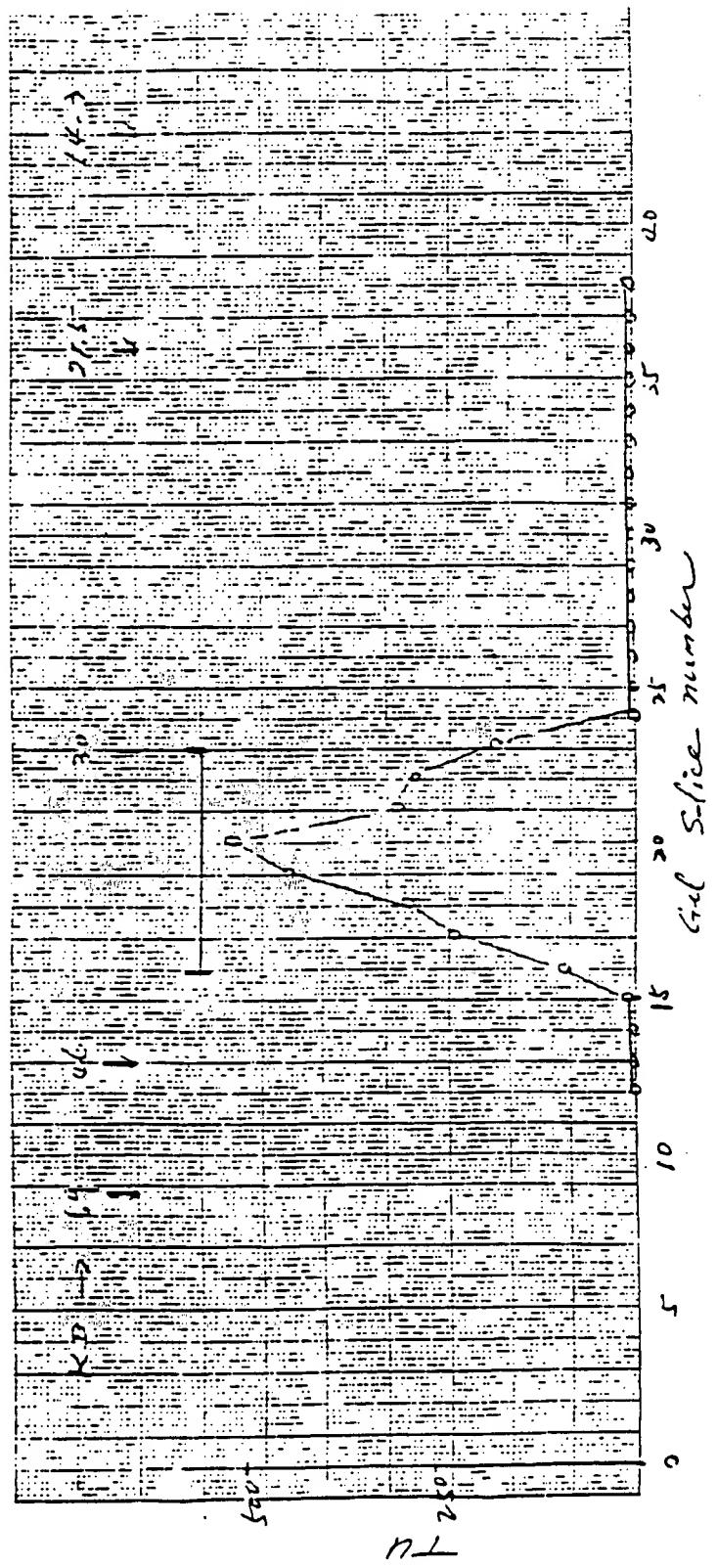


Fig. 4. Silver Stained Nonreducing SDS-PAGE



S: molecular weight standard

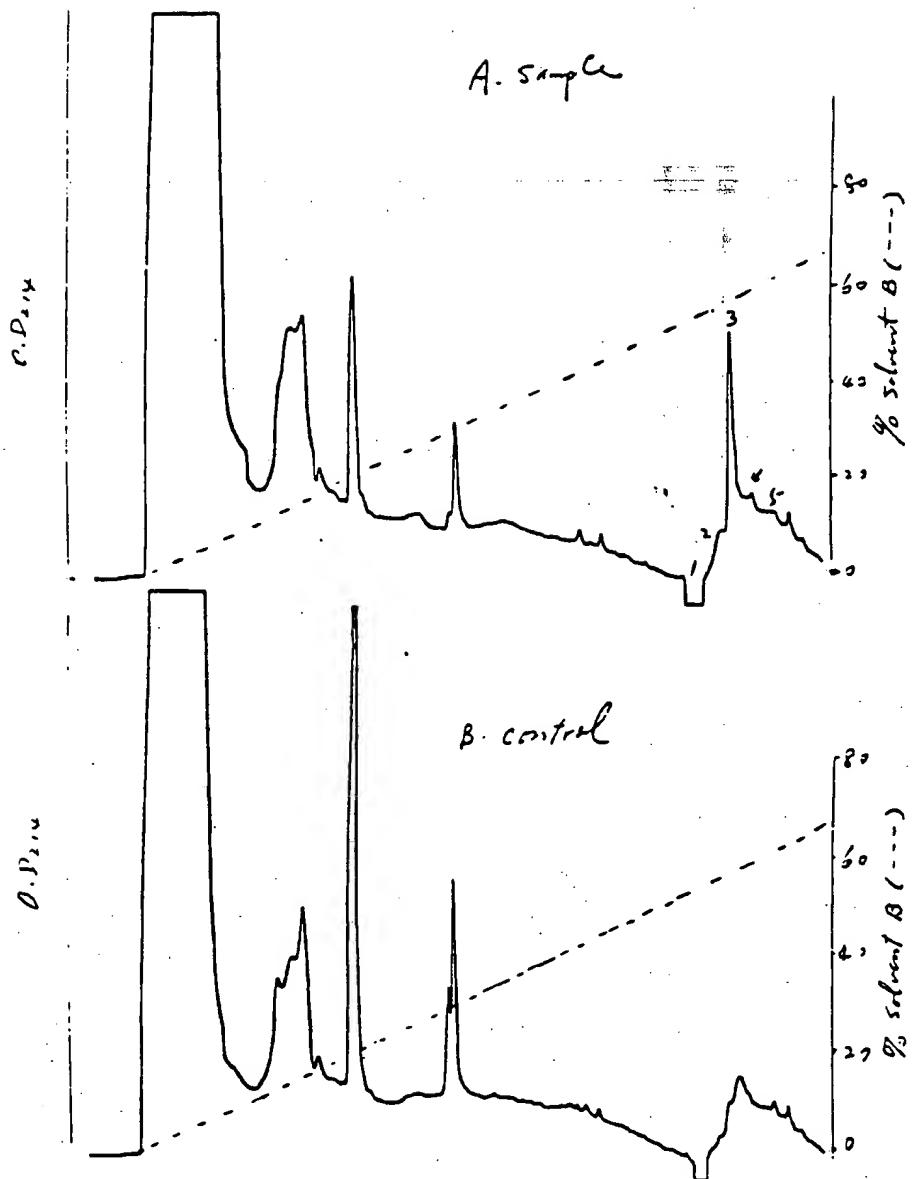
Fig. 5. GdnF activity off preparative SDS-PAGE



↓ Rabbit protein molecular weight markers (Amerham)

— Fractions pooled for further analysis

Fig 6. RP-HPLC of gel slice extract

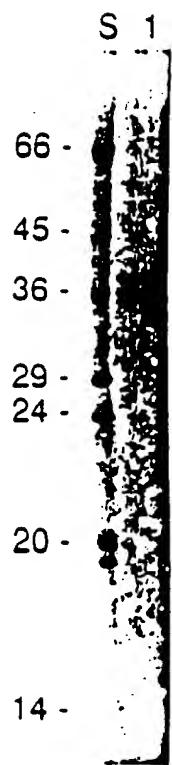


A. Sample is pooled gel extract from slice #16-23 in Fig 5

B. Control is pooled gel extract from corresponding slices of a blank lane.

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Fig. 7 Coomassie stained non-reducing SDS-PAGE



Lane 1 sample is from peak 3 in Fig. 6A
S molecular weight standard

FIGURE 8

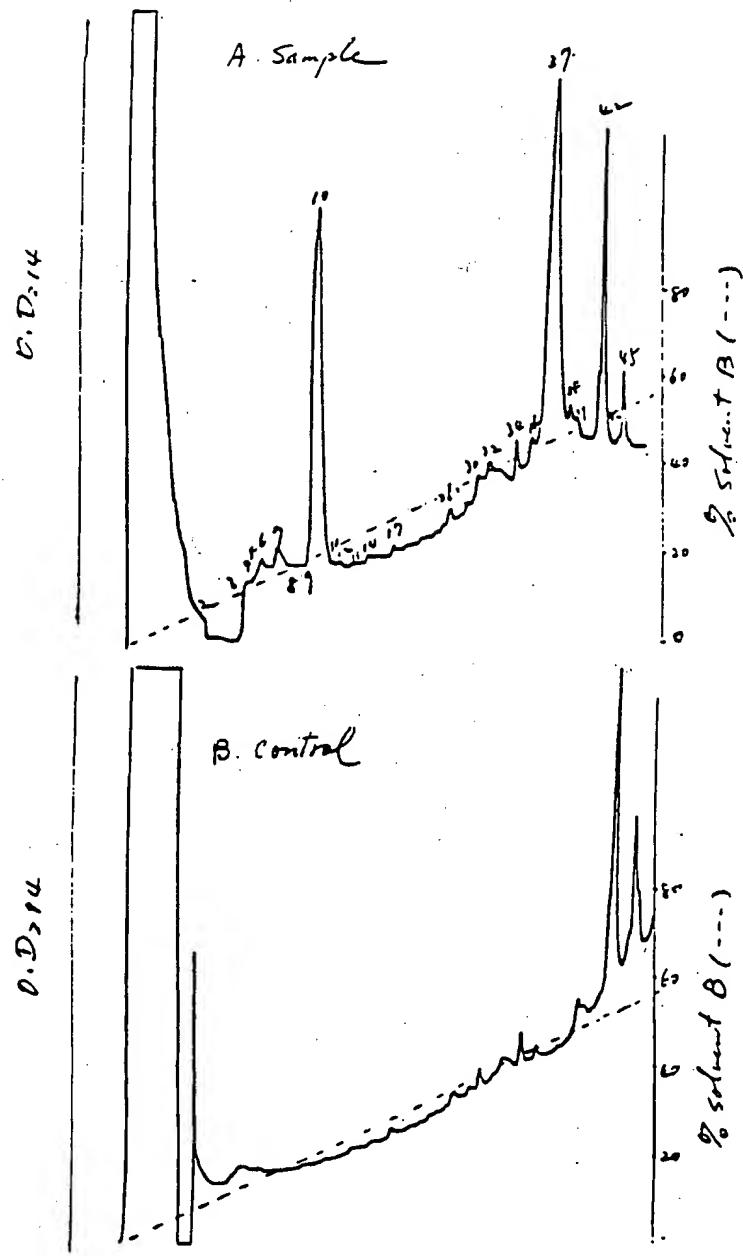
Amino-terminal sequence of GDNF

(S)-P-D-K-Q-A-A-A-L-P-R-R-E-(R)-N-()^{*}-Q-A-A-A-A-(S)-P-
(D)-(N)

* no residue could be unequivocally identified in this position

amino acid residues in parenthesis are those identified with less certainty

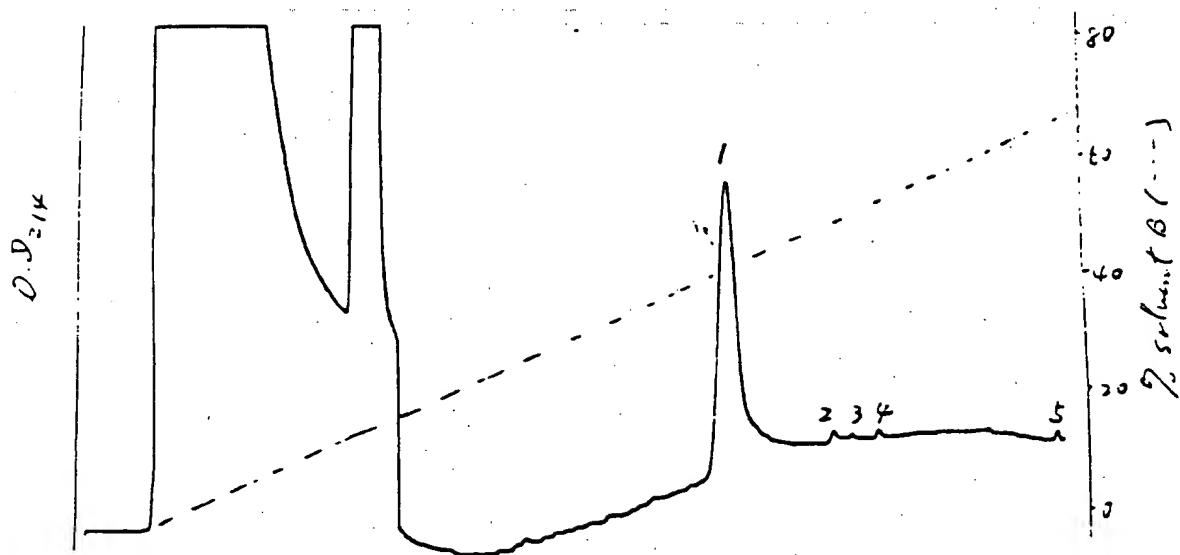
Fig. 7 RP-HPLC of trypsin-digested CRNF



A. Sample is from fractions 5 + 6 in Fig. 3

B. A control contains trypsin only

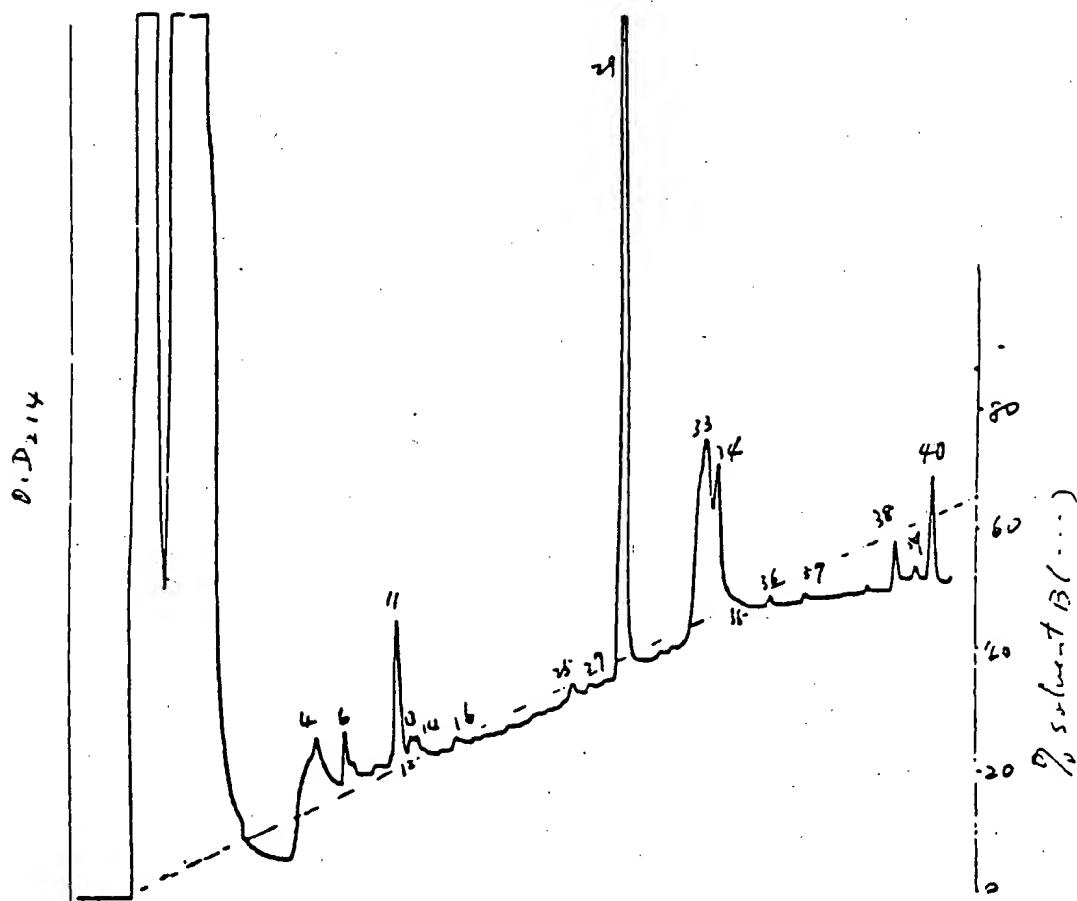
Fig 10 RP-HPLC of CNBr-transect sample



Sample is from peak 37 in Fig 9A

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Fig. 11. RP-HPLC of a reduced CNBr fragment



Sample is from peak 1 in Fig. 10

12/31

FIGURE 12

An internal sequence of the GDNF

D-K/Q-I-L-K-N-L- (G) *- (R) - (V) - (R) - (R) - L

*Amino acid residues placed in parentheses are ones identified with less certainty.

FIGURE 13

1	ccccccggct gcaggaaattc gggg gtc tac gga gac cgg atc cga ggt gcc ggc v y g d r i r g a a a	88
	ggg gac tct aag atc aag tta tgg gat gtc gtc gct gtc tgc ctc gaa g r d s k m k w v v v c l v l	142
	ctc tac acc ggc tct gcc ttc ccc ctc gac ggt aag agg ctt ctc gaa l h t a s a f p l p a g k r l l	196
	ccc gcc gaa gac cac tcc ctc ggc cac cgc gtc ccc ttc ggg ctt acc acg p a e d h s l g h r v p f a l t s	250
	gac tcc aat atg ccc gaa gat tat cct gac cag ttt gat gac gtc atg gat ttt d s n m p e d y p d q f d v h d f	304
	att caa gcc acc atc aaa aga ctt aaa agg tca cca gat aaa caa ggc gca i q a t i k r l k s p d k q a a a	358

FIG. 13 (cont.)

412
AGA GGG AAA GGT CGC AGA GGC CAG AGG GGC AAA AAT CGG GGG TGC GTC TTA ACT
R G K G R R G Q R G K N R G C V L T

GCA	ATA	CAC	TTA	AAT	GTC	ACT	GAC	TTC	CCT	TTC	GGC	TAC	GAA	ACC	AAG	GAG	GAA
A	I	H	L	N	V	T	D	L	G	L	G	Y	E	T	K	E	E

520
CTG ATC TTT CGA TAT TGT AGC GGT TCC TGT GAA GCG GCC GAG ACA ATG TAC GAC
T I F R Y C S G S C E A A E T M V D

574
AAA ATA CTA AAA AAT CTG TCT CGA AGT AGA AGG CTA ACA AGT GAC AAG GTA GCC

628
CAG GCA TGT TGC AGG CCG GTC GCC TTC GAC GAC GAC GAC CTG TCG TCG TTG TTA GAC GAC
 0 A C C R P V A F D D L S F L D D

682
AGC CTG GTT TAC CAT ATC CTA AGA AAG CAT TCC GCT AAA CGG TGT GGA TGT ATC
S L V Y H I L R K H S A K R C G C I

TGA CCCTGGCTCC AGAGACTCCT GTGTATTGCA TCCCTGCTAC AGTGGCGAAGA AAGGGACCAA

FIG. 13 CONT.

815

GGTCCCCAGG AAATAATTTGC CCAGAAAGGA AGATAAGGAC CAAGAAGGCA GAGGCAGAGG CGGAAGAAGA

875

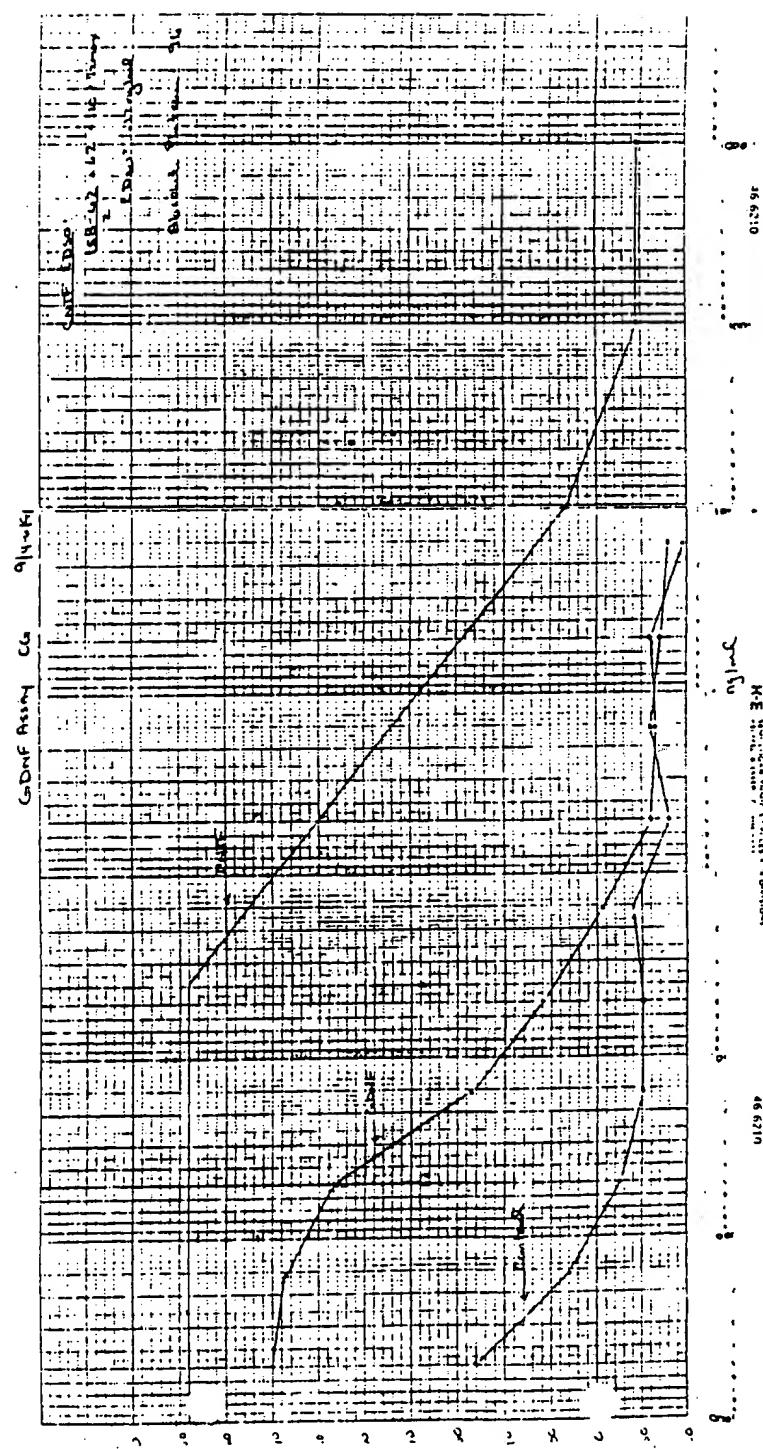
AGAAGAAAG AAGGACCGAAG GCAGGCCATCT GTGGGAGCCCT GTAGAAAGGAG GCCCAGCTAC AG

FIGURE 14

S	P	D	K	Q	A	A	A	A	A	A	A	S	P	E	N	S			
L	P	R	R	E	R	N	R	Q	R	G	K	N	R	G	C	V	L	T	
R	G	K	G	R	R	G	Q	R	L	G	L	G	Y	E	T	K	E	E	
A	I	H	L	N	V	T	D	L	G	S	C	E	A	A	E	T	M	Y	D
L	I	F	R	Y	C	S	G	S	C	R	R	R	L	T	S	D	K	V	G
K	I	L	K	N	L	S	R	S	R	D	D	D	L	S	F	L	D	D	I
Q	A	C	C	R	P	V	A	F	D	D	D	D	A	K	R	C	G	C	I
S	L	V	Y	H	I	L	R	K	H	S	A	K	R	C	G	C	G	C	I

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Figure 15



18

16
FIGURE

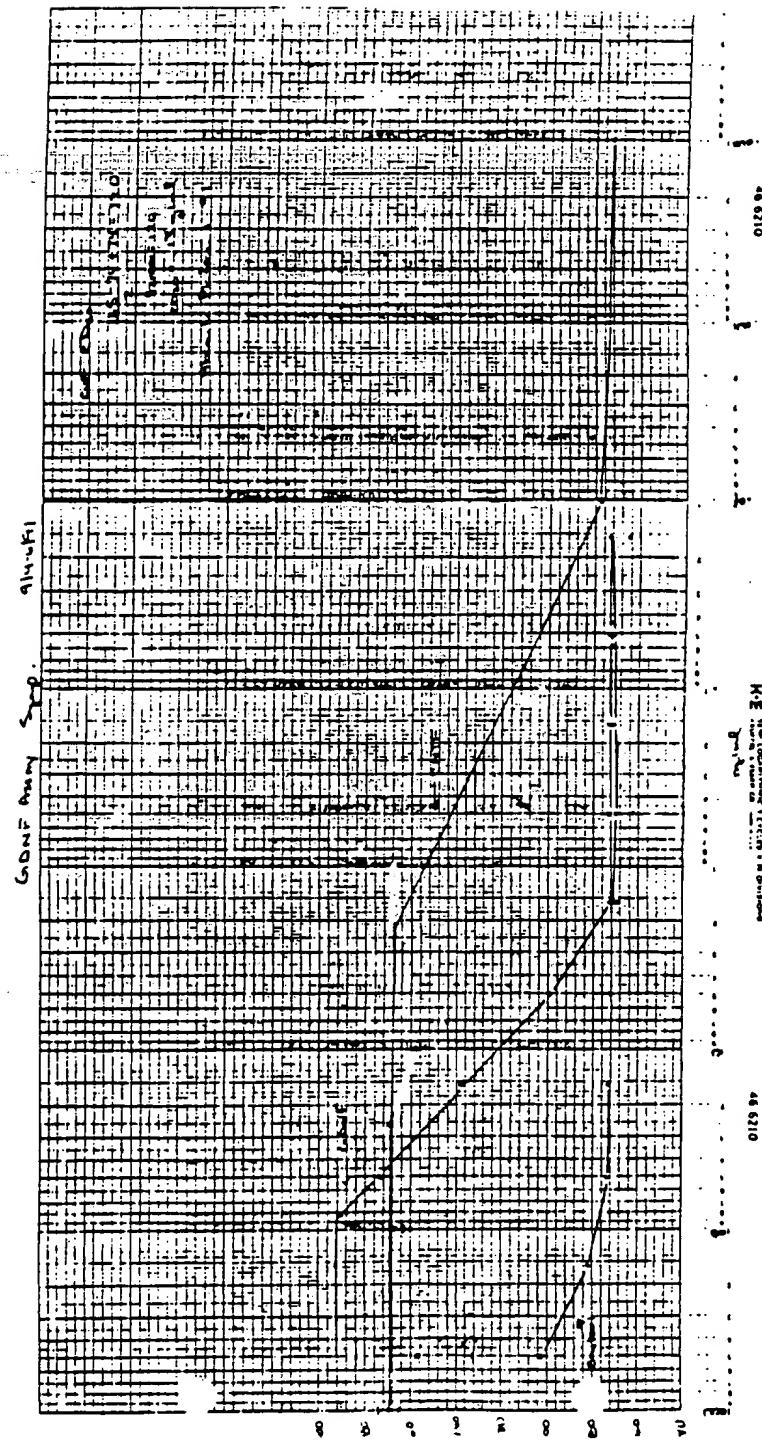


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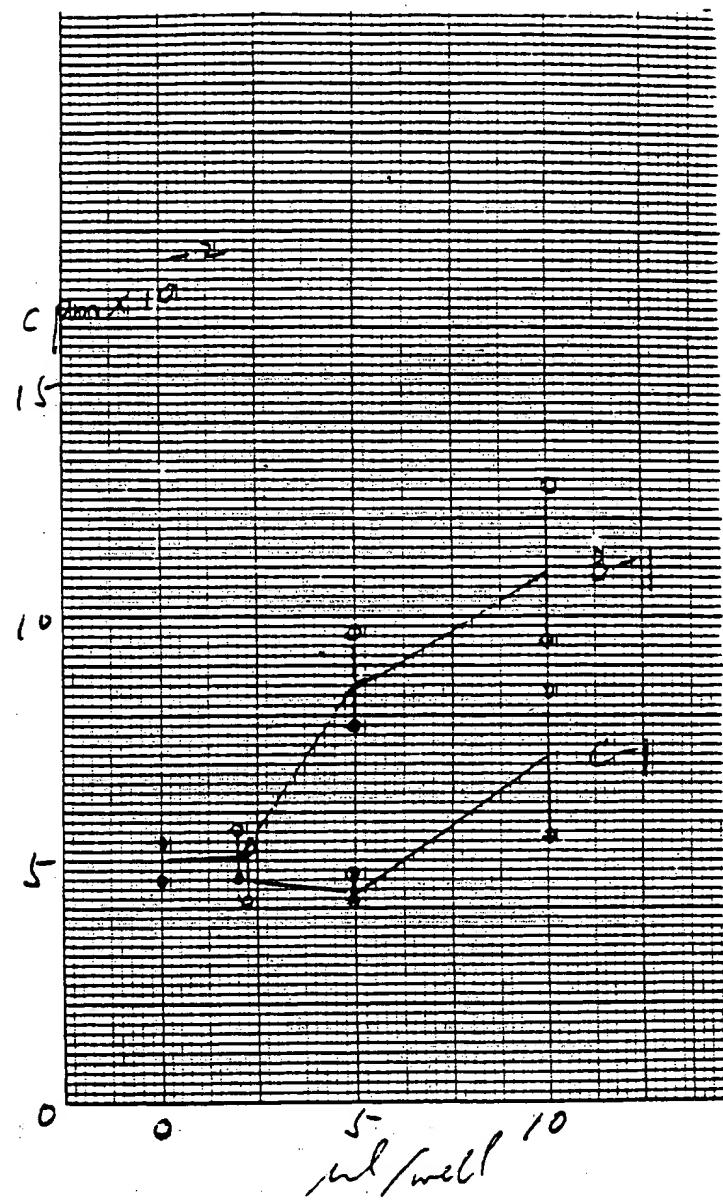


FIGURE 8
USE OF INSTRUMENTS IN INVESTIGATION

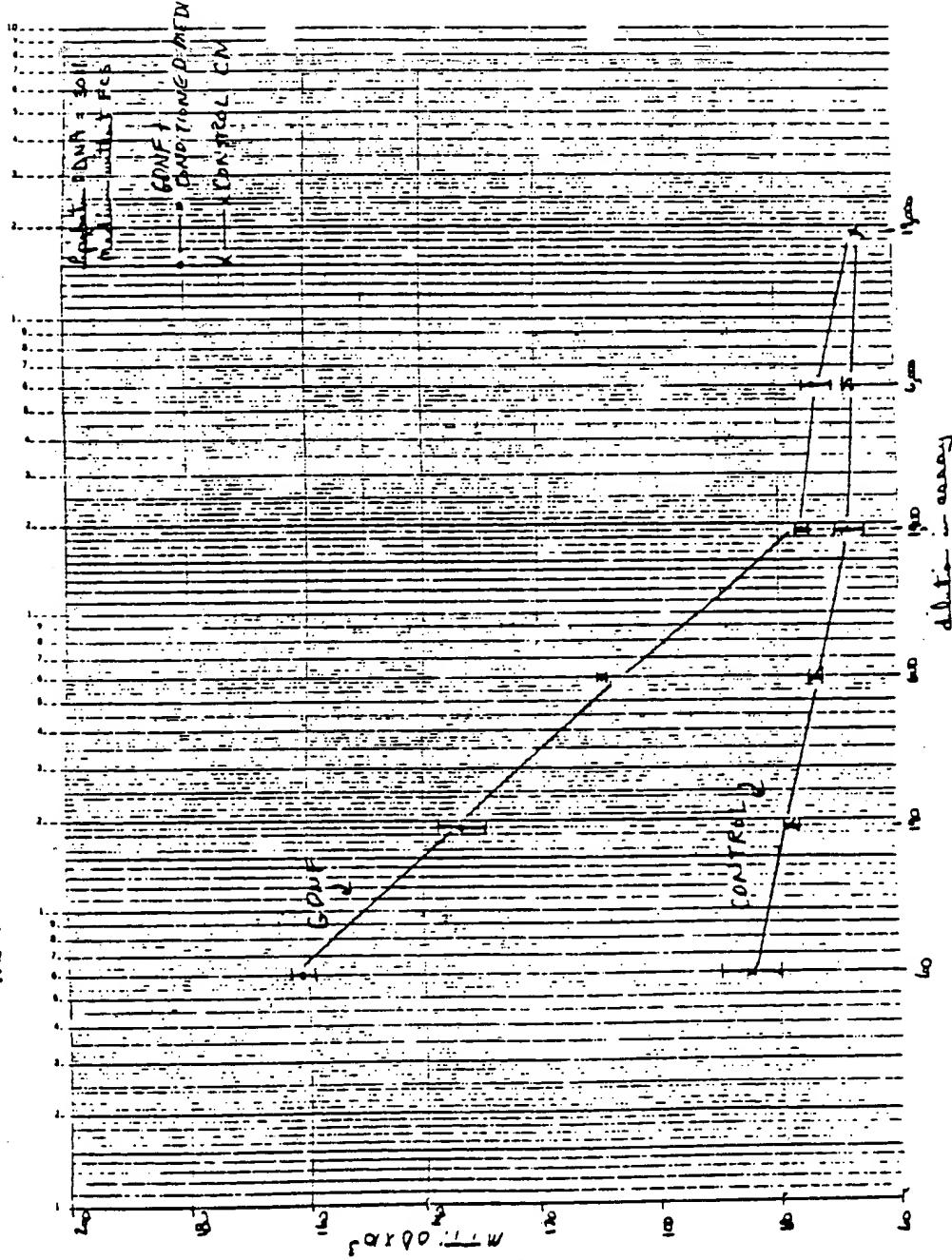
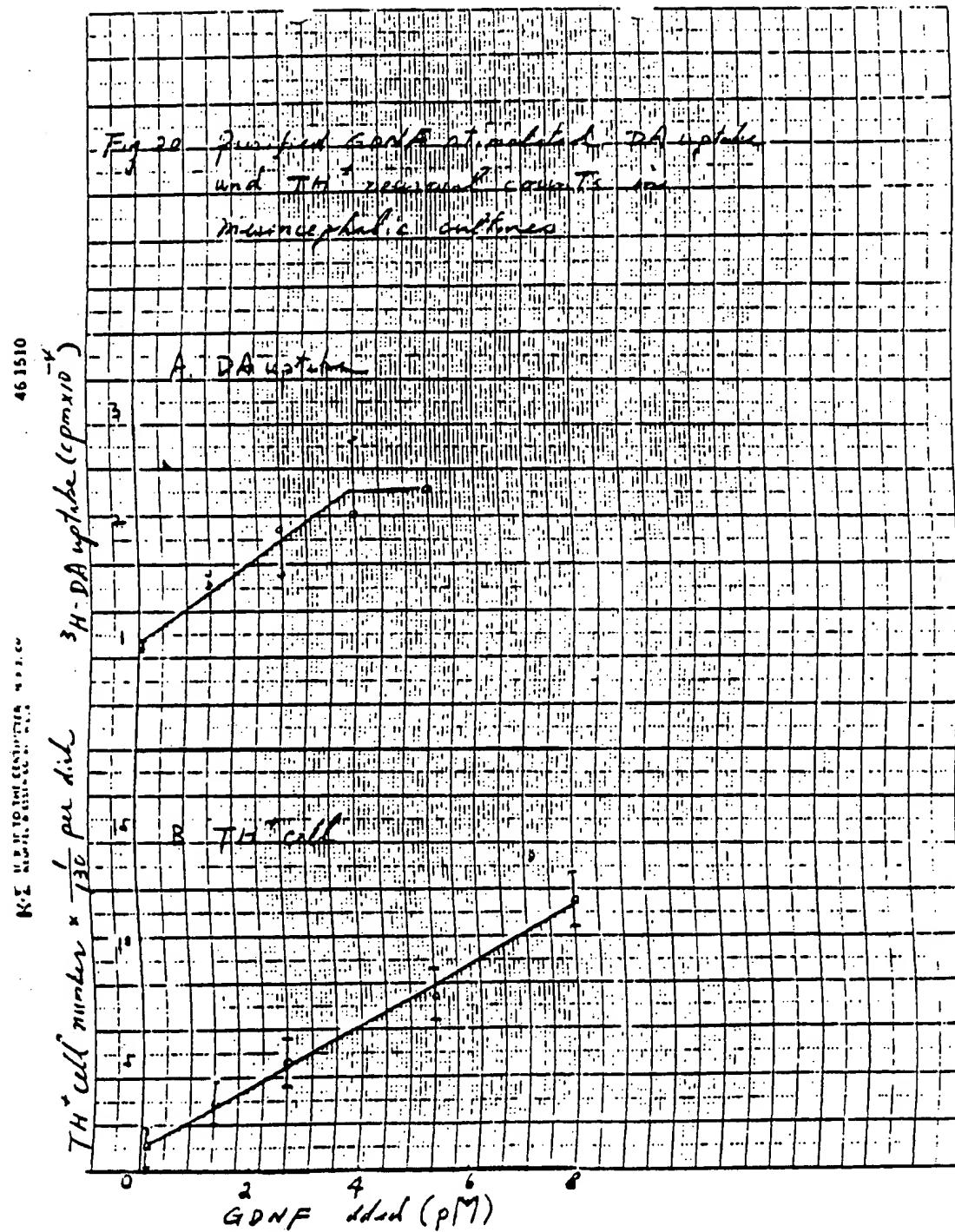


FIGURE 19

FIG. 19 CONT.

GAT GAT AAC CTG GTT TAC CTA ATG CAT ATG GAT CTG CTA AAA AGG TGT TGT GCA TGT ATC TCA
D N L V Y H I L R K H S A K R C G C I

> ctcggctccagactgtgtattgtattccctgatacgaaaag



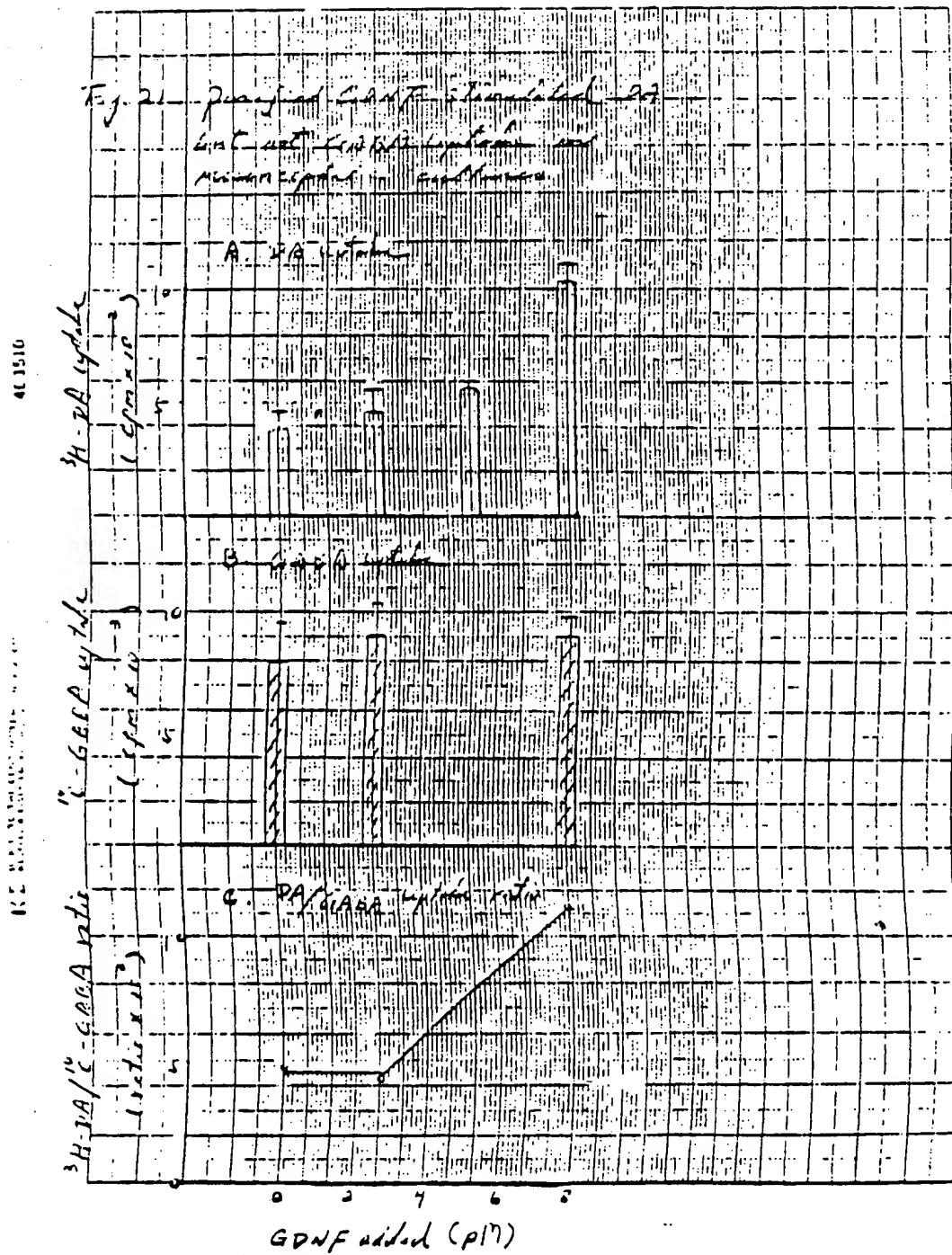


Figure 22

41

ttctcccccacccctccgcgcgcgca gCT GCC GCC GCC
G A A A

97

GGA CGG GAC TTT AAG ATG AAG TTA TGG GAT GTC GTC GTC GCT GTC GTC GTC GTC
G R D F K M K L W D V V A V C L V L

151

CTC CAC ACC GGG TCC GCC CTC CCC GCC GCT AAG AGG CTT CCC GAG GCG
L H T A S A P P L P A G K R P P E A

205

CCC GCC GAA GAC CGC TCC CTC GCC CGC CGC GCG CCC TTC GCG CTG AGC AGT
P A E D R S L G R R A P P A L S S

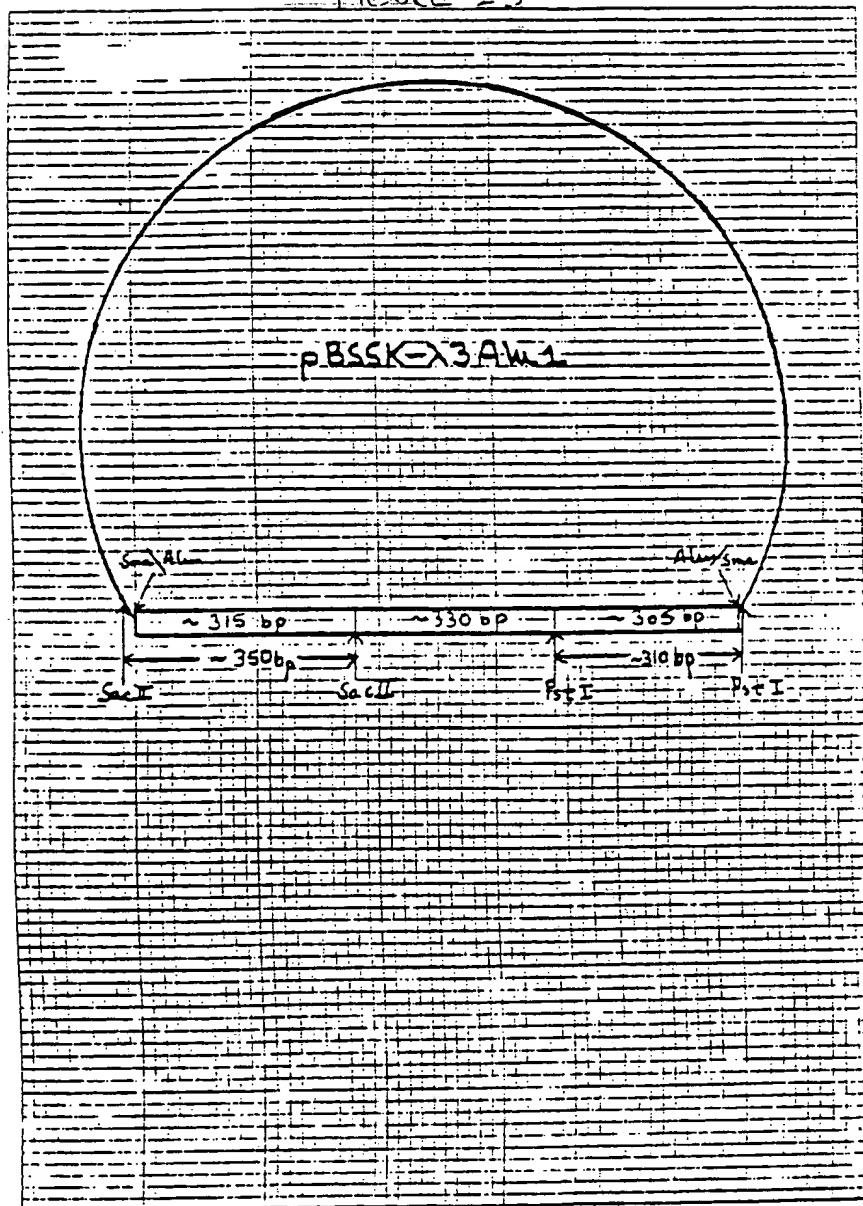
223

GAC Tgtaaqaacccgttcc
D

FIGURE 23

K-2 25000 TO 100000 INC. 100000 IN. 100000

460750



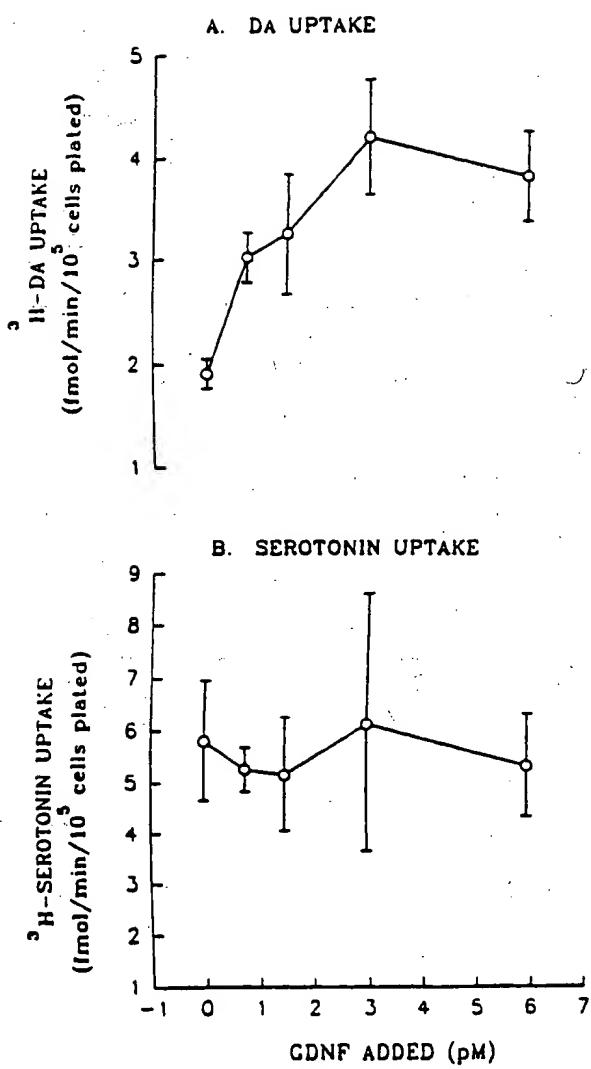


FIGURE 24

